



Attorney Docket No.: 25436/2462
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SEQUENCE_Stratagene-2462.txt
SEQUENCE LISTING

<110> Stratagene California
Braman, Jeffrey
Carstens, Carsten-Peter
Novoradovskaya, Natalia
Bagga, Rajesh
Basehore, Lee Scott

<120> Compositions and Methods for Protein Isolation

<130> 25436/2462

<140> US 10/712,137

<141> 2003-11-13

<160> 32

<170> PatentIn version 3.2

<210> 1

<211> 17

<212> PRT

<213> Bos taurus

<400> 1

Lys Ile Gln Ala Ser Phe Arg Gly His Ile Thr Arg Lys Lys Leu Lys
1 5 10 15

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<210> 2

<211> 28

<212> PRT

<213> Artificial sequence

<220>

<223> calmodulin-dependent protein kinase I (CMKI) AA 294-318

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Ser Glu Gln Ile Lys Lys Asn Phe Ala Lys Ser Lys Trp Lys Gln Ala
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Phe Asn Ala Thr Ala Val Val Arg His Met Arg Lys
20 25

<210> 3

<211> 20

<212> PRT

<213> Artificial sequence

<220>

<223> calmodulin-dependent protein kinase II (CMKII) AA 290-309

<400> 3

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Leu Lys Lys Phe Asn Ala Arg Arg Lys Leu Lys Gly Ala Ile Leu Thr
1 5 10 15

Thr Met Leu Ala
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<210> 4
<211> 16
<212> PRT
<213> Homo sapiens

<400> 4

Trp Ile Ala Arg Leu Arg His Ile Lys Arg Leu Arg Gln Arg Ile Cys
1 5 10 15

<210> 5
<211> 260
<212> DNA
<213> Artificial sequence

<220>
<223> DNA sequence coding CBP/SBP tandem affinity tags fused to the
N-terminus of the bait protein

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cgctttaaga aaatctcatc ctccggggca cttggaagcg gtagcggtac catggacgag 120
aagaccaccg gctggcgggg cggccacgtg gtggagggcc tggccggcga gctggagcag 180
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<211> 78
<212> PRT
<213> Artificial sequence

<220>
<223> CBP/SBP tandem affinity tags fused to the N-terminus of the bait
protein

<400> 6

Met Lys Arg Arg Trp Lys Lys Asn Phe Ile Ala Val Ser Ala Ala Asn
1 5 10 15

Arg Phe Lys Lys Ile Ser Ser Ser Gly Ala Leu Gly Ser Gly Ser Gly
20 25 30

Ser Met Asp Glu Lys Thr Thr Gly Trp Arg Gly Gly His Val Val Glu
35 40 45

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Gly Leu Ala Gly Glu Leu Glu Gln Leu Arg Ala Arg Leu Glu His His
50 55 60

Pro Gln Gly Gln Arg Glu Pro Ser Gly Gly Cys Lys Leu Gly
65 70 75

<210> 7
<211> 254
<212> DNA
<213> Artificial sequence

<220>
<223> DNA sequence coding CBP/SBP tandem affinity tags fused to the C-terminus of the bait protein

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cagggccagc gggagccctc cggcggctgc aagctgggct ccggaaagcg acgatggaaa 180
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<223> CBP/SBP tandem affinity tag fused to the C-terminus of the bait protein

<400> 8

Gly Ser Gly Ser Gly Ser Met Asp Glu Lys Thr Thr Gly Trp Arg Gly
1 5 10 15

Gly His Val Val Glu Gly Leu Ala Gly Glu Leu Glu Gln Leu Arg Ala
20 25 30

Arg Leu Glu His His Pro Gln Gly Gln Arg Glu Pro Ser Gly Gly Cys
35 40 45

Lys Leu Gly Ser Gly Lys Arg Arg Trp Lys Lys Asn Phe Ile Ala Val
50 55 60

Ser Ala Ala Asn Arg Phe Lys Lys Ile Ser Ser Ser Gly Ala Leu
65 70 75

<210> 9
<211> 101
<212> PRT

<213> Artificial sequence

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<223> SBP sequence (SB1)

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Met Asp Glu Lys Thr His Cys Thr Ile Ser Met Asn Gly Ala Val Pro
1 5 10 15

Leu Val Pro His His His Pro Gln Gly Asp Pro Leu Arg Leu Leu His
20 25 30

Arg Pro Gln Pro Ala Leu Leu Val Arg His Pro Gln Gly Asp Leu Val
35 40 45

Ala Leu Val Glu His His Glu Gly Val Asp Arg Gly Leu Val Ala Leu
50 55 60

Pro Glu Leu His Ala Glu Glu Leu Gly Glu Pro Val Gly Asp Leu Val
65 70 75 80

Gln Gly Pro Val Glu Gln Val Gln Gly Val Val Asp Ala Leu Val Trp
85 90 95

Arg Leu Pro Pro Ser
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<210> 10

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<212> PRT

<213> Artificial sequence

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<223> SBP sequence (SB2)

<400> 10

Met Asp Glu Lys Thr His Cys Phe His Pro Gly Asp His Leu Val Arg
1 5 10 15

Leu Val Glu Glu Leu Gln Ala Leu Ala Glu Gly Leu Gln Arg Gln Gly
20 25 30

Gly Arg Gln Pro His Arg Leu Pro Arg Arg Arg Pro His His Leu Gln
35 40 45

Leu Leu Leu Asp Glu Ala His Pro Gln Ala Gly Pro Leu Arg Glu Arg
50 55 60

Ala His Gln Val Asp Gly Arg Leu Leu Leu Gln His His Pro Gln Gly
65 70 75 80

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Asp Arg Leu Leu Gln Gln Pro Gln Asp His Pro Leu Glu Leu Val Trp
85 90 95

Arg Leu Pro Pro Ser
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<210> 11
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<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB3)

<400> 11

Met Thr Arg Arg Pro Thr Ala Ser Ser Ser Ser Cys Val Arg His Leu
1 5 10 15

Leu Leu Arg Gln Gly Glu His Gly His Gln Ala Leu Glu Asp Arg Asp
20 25 30

Lys Ala Arg His Val Arg Leu Val Glu Gly Asp Val Glu Val Leu Gly
35 40 45

Gly Leu Asp Arg Leu Ala Arg Ala Arg His Glu Ala Leu His Pro Gln
50 55 60

Ala Gly Leu Val His Leu Pro Leu His Gly Gly Asp Leu Gly Gly His
65 70 75 80

Leu Arg Leu Val Leu Glu Ala His Pro Gln Gly Asp Arg Leu Gly Leu
85 90 95

Ala Val His His His
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<210> 12
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<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB4)

<400> 12

Met Asp Glu Lys Thr His Trp Gly Ile Ser Thr Trp Arg Gly Glu Pro
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Leu Leu His His Pro Gln Ala Gly Arg Leu Pro Leu Asp Arg Arg Arg
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20

25

30

Ala Arg His Arg Arg Ile Leu Gly Ala Glu Pro Gly Gly Val Asp His
35 40 45

Gly Leu Arg Leu Glu Leu Leu Asp Asp His Arg Pro Leu Val Pro Asp
50 55 60

His His Pro Gln Arg Gly Pro Leu Gln Arg Gly Asp Leu Pro Gln Val
65 70 75 80

Val Pro Leu Val Arg Leu Arg His Ala His Val Leu Gly Leu Gly Leu
85 90 95

Ala Ala Ala Thr Ile Thr
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<212> PRT
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<220>
<223> SBP sequence (SB5)

<400> 13

Met Asp Glu Lys Thr His Trp Val Asn Val Tyr His Pro Gln Gly Asp
1 5 10 15

Leu Leu Val Arg Gly His Gly His Asp Val Glu Ala Leu His Asp Gln
20 25 30

Gly Leu His Gln Leu Asp Leu Leu Val Gly Pro Pro Pro Glu Val Val
35 40 45

Arg Ala Leu Arg Gly Glu Val Leu Gly Gly Leu Arg Arg Leu Val Pro
50 55 60

Leu Asp His Pro Gln Gly Glu Ala Leu Asp Gln Ala Arg Gln Arg Pro
65 70 75 80

Gln His Leu Leu Glu Leu His His Arg Ala Leu Pro Pro Ala Leu Val
85 90 95

Trp Arg Leu Pro Pro Ser
100

<210> 14
<211> 102

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<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB6)

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Met Asp Glu Lys Thr His Trp Leu Asn Asn Phe Glu Glu Leu Leu Ala
1 5 10 15

Arg Leu Asp Gly Leu Arg Glu Gly Glu Asp His Pro Leu Val Leu Arg
20 25 30

His His Pro Gln Gly Asp Gly Leu Leu Asp Gln Pro Leu Gly Arg His
35 40 45

Arg Ala Leu Asp Gly Glu Val Arg Glu Gly Asp Arg Pro Leu Asp Gln
50 55 60

Gly Gly Glu Glu Asp Leu Gly Ala Leu Val Asp Asp Asp Gly Glu Val
65 70 75 80

Leu Asp Gly Leu Val His Val Gly Val His Val His Asp Pro Leu Val
85 90 95

Cys Gly Cys His His His
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<210> 15
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<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB7)

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1 5 10 15

His Trp Met Ser Ala Val Gly Asn Gly Lys Ile Asp Cys Ser Phe Asn
20 25 30

Met Asn Leu Ser Leu Asn His Trp Leu Ser Ser Gly His Pro Asp Gly
35 40 45

Ala Leu Asp Asp Gln Leu His Pro Gln Gly Asp Ala Leu Val Gly Arg
50 55 60

Asp Asp Gly Val Val Gln Ala Leu Arg Leu Glu Gly Gln His Gln His
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70

75

80

Arg Arg Leu Ala Gln Arg Arg Ala Asp Arg His Arg Gln Leu Val Trp
85 90 95

Arg Leu Pro Pro Ser
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<223> SBP sequence (SB8)

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Met Asp Glu Lys Thr His Cys Thr Ile Glu Leu Asn Phe Ser Phe Thr
1 5 10 15

His Trp Lys Leu His His His Pro Gln Gly Asp Ala Leu Leu Asp Asp
20 25 30

Gly Val Arg Pro His His Pro Leu Ala Asp Glu Gly Gly Gly Leu Asp
35 40 45

Gln Gly Leu Gly His Arg Arg Gly Val Val Ala Glu Arg Leu Ala Arg
50 55 60

Arg Asp Pro Glu Val Leu Glu Gly Leu Val Glu Arg His Arg Gly Leu
65 70 75 80

Val Pro Arg Leu Arg His Gly Gly Glu Arg His Ala Glu Pro Leu Val
85 90 95

Trp Arg Leu Pro Pro Ser
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<210> 17
<211> 102
<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB9)

<400> 17

Met Asp Glu Lys Thr His Cys Asn Thr Gly Leu Tyr Asp Gly Ala Ala
1 5 10 15

SEQUENCE_Stratagene-2462.txt

Asp Cys Phe Asn Glu Leu Asn Lys Asp Val Ala Pro Leu Val Glu Gly
20 25 30

Arg His Asp Leu Val Glu Gly Leu Leu Leu Glu Arg His Pro Gln Gly
35 40 45

Asp Pro Leu Val Ala His Arg Gln Leu Val His His Pro Leu Leu Gly
50 55 60

Arg Gly Glu Arg His Arg Arg Ala Leu Val Pro Gln Gln Glu His Gln
65 70 75 80

Pro His Arg Leu Gln Pro Val Val Asp Leu Gly Arg Arg Arg Leu Val
85 90 95

Trp Arg Leu Pro Pro Ser
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<210> 18

<211> 103

<212> PRT

<213> Artificial sequence

<220>

<223> SBP sequence (SB10)

<400> 18

Met Asp Glu Lys Thr His Trp His Glu Arg Ala Gln Glu Leu Val Gly
1 5 10 15

Gly Leu Leu Leu His Asp His Pro Gln Arg Leu Leu Leu Glu Pro Arg
20 25 30

Gly Pro Arg Pro Leu Arg Gly Leu Val His Glu Arg Gly His Gln Pro
35 40 45

Gln Pro Leu Ala Gly Arg Val Glu Glu Ala Asp Gly Gly Leu Leu Arg
50 55 60

Asp Gly Gly Gly Glu Leu Glu Pro Leu Val Arg Glu Gly Glu Asp His
65 70 75 80

Leu Glu Pro Leu Asp Asp Glu Leu Asp Ala Gly Pro Arg Gly Leu Val
85 90 95

Trp Arg Leu Pro His His His
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<210> 19

SEQUENCE_Stratagene-2462.txt

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Met Asp Glu Lys Thr His Trp His Glu Arg Val His His Leu Ala Asp
 1 5 10 15

Gly Leu Glu Gln His Pro Gln Gly Gln Arg Arg Pro Leu Val Glu Arg
 20 25 30

His Arg Gln Val Pro Arg Gly Leu Val Arg Glu Leu Gln His Glu Gly
 35 40 45

Leu Pro Leu Glu His Pro Ala Gly Val His Val Ile Arg Leu His Gln
 50 55 60

Gly Asp Asp Arg Asp Val Asp Gly Leu Val Asp Gly His Gly Arg Asp
 65 70 75 80

Val Arg Gly Leu Glu Arg Glu Val Gly Asp Gly Pro His Arg Leu Val
 85 90 95

Trp Arg Leu Pro Pro Ser
 100

<210> 20
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 <212> PRT
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<220>
 <223> SBP sequence (SB12)

<400> 20

Met Asp Lys Asp Pro Leu Leu Glu Glu Leu Glu Glu Leu Arg Glu Arg
 1 5 10 15

Leu Val His His Pro Gln Gly Gly Leu Leu Pro Leu Arg Gly Gln Val
 20 25 30

Gly His Asp Ala Glu Arg Leu Gly Ala Glu Val Asp Asp Leu Arg Gly
 35 40 45

Gly Leu Leu Asp Glu Pro Gln Arg Ala Val Ala Gly Leu His His Val
 50 55 60

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Pro His Arg Val Gly Gln Arg Leu Val His Glu Val Arg Glu Leu Asp
65 70 75 80

Glu Gly Leu Leu Asp Gln Arg Asp Asp Leu Arg Gln Arg Leu Val Trp
85 90 95

Arg Leu Pro Pro Ser
100

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<211> 102
<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB13)

<400> 21

Met Glu Arg Glu Asp Pro Leu Asp Glu Gln Leu Arg Glu Leu Arg Glu
1 5 10 15

Ala Leu Val Asp His Pro Gln Gly Gly Ala Gln Ala Leu His Arg His
20 25 30

Asp Gly Gly Glu His Val Pro Leu Arg Arg Val Gln His Arg Leu Gln
35 40 45

Pro Gly Leu Gln His His Leu Glu Pro Gln Pro Leu Gly Leu Leu Gly
50 55 60

Glu Leu Gln Ala Arg Leu Gln Pro Leu Ala Gly Glu His Glu Gly Asp
65 70 75 80

Gly Ala Gly Leu Gln Arg Val Pro Gly His Gln Gly Arg Arg Leu Val
85 90 95

Trp Arg Leu Pro Pro Ser
100

<210> 22
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<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB14)

<400> 22

Met Asp Glu Lys Thr His Arg Thr Leu Ser Val Ser Leu Ser Phe Asn
1 5 10 15

SEQUENCE_Stratagene-2462.txt

Asp Trp Leu Gly Gln Thr Lys Ala Cys Trp Arg Leu Val Glu Gly Leu
20 25 30

His Gly His Pro Gln Gly Leu Val Arg Glu His Glu Val Asp Val Leu
35 40 45

Pro Leu Ala Glu Glu Val Gln Gln Val Val Gly Gly Leu Ala Asp Gly
50 55 60

Val Glu Gln Pro Gly Gly Gly Leu Leu His Arg Ala Gln Arg Val Asp
65 70 75 80

His Pro Leu Pro Asp His Ala Gly Gln Val Leu Gly Arg Leu Val Trp
85 90 95

Arg Leu Pro Pro Ser
100

<210> 23
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<213> Artificial sequence

<220>
<223> SBP sequence (SB15)

<400> 23

Met Asp Glu Lys Thr His Trp Leu Glu Asp Leu Lys Gly Val Leu Lys
1 5 10 15

Asp Cys Leu Lys Asp Leu Met Asp Phe Thr Lys Asp Cys Arg Ser Pro
20 25 30

Arg Val Gln Pro Gln Pro Leu Leu His His Asp Arg Gly Glu Pro Val
35 40 45

Pro Leu Leu Arg Glu Ala Gly Arg Asp Leu Gly Gly Leu Gly Pro Arg
50 55 60

Ala Pro Arg Gln Ala Arg Pro Leu His His Gly Arg His Asp Leu His
65 70 75 80

Glu Pro Leu Val Leu Gln Asp His Pro Gln Gly Gly Pro Leu Val Cys
85 90 95

Gly Cys His His His
100

SEQUENCE_Stratagene-2462.txt

<210> 24
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 <212> PRT
 <213> Artificial sequence

<220>
 <223> SBP sequence (SB16)

<400> 24

Met Asp Glu Lys Thr His Trp Val Leu Gln Leu His Pro Gln Gly Asp
 1 5 10 15

Arg Leu Gly Pro Arg His Gly Gly Asp Asp Val Arg Leu Val Gly Gln
 20 25 30

Gly Glu Gly Val Leu Glu Gly Leu Asp Gly Arg Pro Arg Arg Arg Arg
 35 40 45

His Arg Leu Pro Arg Glu Asp Glu His Arg Val Arg Ala Leu Val Asp
 50 55 60

Gln Val Arg Asp Leu Ala Glu Arg Leu Val Glu Glu Val Asp Gly Gly
 65 70 75 80

Val Glu Ala Leu Arg His Leu Gly Leu Pro Gln Asp Glu Pro Arg Ser
 85 90 95

Gly Gly Cys His His His
 100

<210> 25
 <211> 102
 <212> PRT
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<220>
 <223> SBP sequence (SB17)

<400> 25

Met Asp Glu Lys Thr His Trp Val Gly Asp Leu Gln Glu Pro Leu Gly
 1 5 10 15

Pro Leu His Gly Gly Val Gly Glu Val Pro Gly Gly Leu Val Leu Arg
 20 25 30

His His Pro Gln Arg Asp Arg Leu Val Asp Gly Val Gly Pro His Gly
 35 40 45

Arg Ala Leu Ala Arg Arg Pro His Arg Val Val Glu Gly Leu His His
 50 55 60

SEQUENCE_Stratagene-2462.txt

Leu Leu Gln Arg Gly Gly Glu Arg Leu Pro Pro Asp Gly Pro Arg Gln
65 70 75 80

Leu Gly Leu Leu Gly Gly Glu Leu Asp Arg Ala Asp Pro Ala Leu Val
85 90 95

Trp Arg Leu Pro Pro Ser
100

<210> 26
<211> 101
<212> PRT
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<220>
<223> SBP sequence (SB18)

<400> 26

Met Asp Glu Lys Thr His Cys Ala Val Asn Val Asn Val Gly Leu Thr
1 5 10 15

His Trp Cys His Arg Val Ala His Leu Gln Pro Leu Asp Pro His Pro
20 25 30

Gln Gly Asp His Leu Arg Leu Glu Pro Leu Gly His Ala Leu Val Asp
35 40 45

Pro Leu Val Gln Gly Val Glu Glu Val Val Arg Pro Leu Gln Leu Asp
50 55 60

Val Gly Val Gln Arg Val Ala Leu Val Glu Gln Val Ala Glu Val Gly
65 70 75 80

Glu Gly Leu Asp His Glu Ala Gly Gln Ala His Gly Ala Leu Val Trp
85 90 95

Arg Leu Pro Pro Ser
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<210> 27
<211> 101
<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB19)

<400> 27

Met Asp Glu Lys Thr Thr Gly Trp Arg Gly Gly His Val Val Glu Gly
1 5 10 15

SEQUENCE_Stratagene-2462.txt

Leu Ala Gly Glu Leu Glu Gln Leu Arg Ala Arg Leu Glu His His Pro
20 25 30

Gln Gly Gln Arg Glu Pro Leu Val Gln Glu Val Glu Asp Val Asp Glu
35 40 45

Gly Leu Val Gln Asp Leu His Gly Val Val Ala Gly Leu Leu Asp Pro
50 55 60

Val Glu Lys Leu Leu Thr Asp Trp Phe Lys Lys Phe Lys Asn Val Ser
65 70 75 80

Lys Asp Cys Lys Met Thr Phe Tyr Leu Glu Met Tyr Asp Trp Ser Gly
85 90 95

Gly Cys His His His
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<210> 28
<211> 102
<212> PRT
<213> Artificial sequence

<220>
<223> SBP sequence (SB20)

<400> 28

Met Asn Glu Lys Thr His Cys Lys Leu Asn Phe Lys Val Asn Ile Ala
1 5 10 15

Asp Trp Leu Ala Glu Phe His Gly Gly Gly Gln Gly Leu Leu Gly Arg
20 25 30

Arg Asp Gly Val Val Gln Arg Leu Val Asp Gly Val Gln Glu Arg Val
35 40 45

Glu Arg Leu Asp Arg Asp Pro Gly Leu Gly Asp Leu Arg Leu Glu Leu
50 55 60

His His Arg Asp His Arg Leu Arg Leu Gly Gly Glu His Leu Leu Arg
65 70 75 80

Asp His Pro Leu Glu Pro Asp Asp His Leu Val Val Gly Gly Leu Val
85 90 95

Trp Arg Leu Pro Pro Ser
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<210> 29
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 <223> Expression vector comprising nucleic acids encoding CBP and SBP affinity tags

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SEQUENCE_Stratagene-2462.txt

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<211> 4533

<212> DNA

<213> Artificial sequence

<220>

<223> Expression vector comprising nucleic acids encoding CBP and SBP affinity tags

<400> 30

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<220>
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SEQUENCE_Stratagene-2462.txt

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<210> 32

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<212> DNA

<213> Artificial sequence

<220>

<223> Expression vector for expression of a "target" binding partner

<400> 32

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